(a) Pd(PPh₃)₄, 1,4-dioxane, Δ (b) H₂, Pd/C, EtOAc, EtOH (c) SnCl₂ dihydrate, EtOH, DMSO Δ

d: $X_1 = CI$, $X_2 = H$ e: $X_1 = CF_3$, $X_2 = H$ f: $X_1 = Me$, $X_2 = Me$

b: $X_1 = Me, X_2 = H$ **c**: $X_1 = OMe, X_2 = H$

SCHEME 2

FIG. 1